

ABSTRACT

The invention relates to a brake system, in particular for utility vehicles.

A compressed-air-operated brake system (10) which is based on the invention and is of the type which is used, in particular, in utility vehicles, has a multi-circuit brake system having a front-axle brake circuit (20) and a rear-axle brake circuit (13). Here, a load emptying valve (12) is provided in the front-axle brake circuit (20) in order to influence the braking force which is adapted to the loading of the vehicle. The braking force or the brake pressure in the rear-axle brake circuit (13) is predefined by means of an automatic load-dependent braking force regulating process as a function of the load acting on the rear axle. The load emptying valve (12) is actuated by a fluid connection (16) from the rear-axle brake circuit. According to the invention, a check valve (17) is provided for shutting off the fluid connection (16) between the load emptying valve (12) and the rear-axle brake circuit (13) when a brake slip regulating process is carried out at the rear axle.

Figure